

The Journal of Thoracic and Cardiovascular Surgery

**Official Publication of
The American Association for
Thoracic Surgery and The Western
Thoracic Surgical Association**

Editor

Andrew S. Wechsler, *Philadelphia, PA*

Section Editors

Ralph J. Damiano, Jr, *St Louis, MO*
D. Craig Miller, *Stanford, CA*
G. Alexander Patterson, *St Louis, MO*
Thomas L. Spray, *Philadelphia, PA*

Statistics Editor

Eugene H. Blackstone, *Cleveland, OH*

Ethics Editor

Martin F. McKneally, *Toronto, Canada*

Managing Editor

Pamela W. Fried, *Philadelphia, PA*

Editorial Assistants

Margaret Etherington, *Philadelphia, PA*
Jonathan Nigro, *Philadelphia, PA*

Senior Production Editor

Lois R. Lindley, *St Louis, MO*

Former Editors

Evarts A. Graham, *Editor, 1931-1957*
Emile Holman, *Editor, 1957-1962*
Brian Blades, *Editor, 1962-1977*
Dwight C. McGoon, *Editor, 1977-1987*
John W. Kirklin, *Editor, 1987-1994*
John A. Waldhausen, *Editor, 1995-2000*

Editorial Board

Cary W. Akins, *Boston, MA*
Carl Lewis Backer, *Chicago, IL*
Friedhelm Beyersdorf, *Freiburg, Germany*
Ray Chu-Jeng Chiu, *Montreal, Canada*
Lawrence H. Cohn, *Boston, MA*
Joseph S. Coselli, *Houston, TX*
Marc R. de Leval, *London, England*
Davis C. Drinkwater, Jr, *Nashville, TN*
M. Arisan Ergin, *Englewood, NJ*
J. William Gaynor, *Philadelphia, PA*
Donald D. Glower, Jr, *Durham, NC*
Bartley P. Griffith, *Baltimore, MD*
Alden H. Harken, *Oakland, CA*
David H. Harpole, Jr, *Durham, NC*
Axel Haverich, *Hannover, Germany*
Valluvan Jeevanandam, *Chicago, IL*
Larry R. Kaiser, *Philadelphia, PA*
Harold L. Lazar, *Boston, MA*
Antoon E. M. R. Lerut, *Leuven, Belgium*
Michael A. Madaus, *Minneapolis, MN*
Roger B. B. Mee, *Cleveland, OH*
Marc R. Moon, *St Louis, MO*
Ivan M. Rebeyka, *Edmonton, Canada*
Thomas W. Rice, *Cleveland, OH*
Robert C. Robbins, *Stanford, CA*
Valerie W. Rusch, *New York, NY*
Hartzell V. Schaff, *Rochester, MN*
Frank W. Sellke, *Boston, MA*
Francis Spinale, *Charleston, SC*
David J. Sugarbaker, *Boston, MA*
Marko I. Turina, *Zurich, Switzerland*
Willem van Oeveren, *Groningen, Netherlands*
Jakob Vinten-Johansen, *Atlanta, GA*
Richard D. Weisel, *Toronto, Canada*
William G. Williams, *Toronto, Canada*

THE AMERICAN ASSOCIATION FOR THORACIC SURGERY

President

Joel D. Cooper, *St Louis, MO*

President-Elect

Tirone E. David, *Toronto, Canada*

Vice President

Richard A. Jonas, *Boston, MA*

Secretary

Irving L. Kron, *Charlottesville, VA*

Treasurer

G. Alexander Patterson, *St Louis, MO*

Editor

Andrew S. Wechsler, *Philadelphia, PA*

Executive Director

Robert P. Jones, Jr, *Beverly, MA*

Councillors

Fred A. Crawford, *Charleston, SC*
Bruce W. Lytle, *Cleveland, OH*
D. Craig Miller, *Stanford, CA*
Carolyn E. Reed, *Charleston, SC*
David J. Sugarbaker, *Boston, MA*
Marko I. Turina, *Zurich, Switzerland*

THE WESTERN THORACIC SURGICAL ASSOCIATION

President

Vaughn A. Starnes, *Los Angeles, CA*

Vice President

Steven W. Guyton, *Seattle, WA*

Secretary

R. Scott Mitchell, *Stanford, CA*

Treasurer

Douglas E. Wood, *Seattle, WA*

Editor

Andrew S. Wechsler, *Philadelphia, PA*

Historian

Richard G. Fosburg, *Palm Desert, CA*

ACS Board of Governors

Steven W. Guyton, *Seattle, WA*

Executive Director

Robert P. Jones, Jr, *Beverly, MA*

Councillors

Robbin G. Cohen, *Los Angeles, CA*
Elliot T. Gelfand, *Edmonton, Canada*
Colleen F. Sintek, *Los Angeles, CA*
Edward D. Verrier, *Seattle, WA*

Councillor/Founder

Arthur N. Thomas, *San Francisco, CA*